

-----CY1-----TM1-----EC1-----TM2-----CY2-----TM3-----

1
HGVGCTGCIKYL FVFNFVFLAGGV I LGVALNL RHD FQTNLLYLEL GDRPAPNTFVGIY ILLAVGVNMFVGLGCGYGAIQESQCLLGTFPTCLVI
10

Human
Chimpanzee
Green Monkey
Hamster
Rat
Mouse

✓ 3

161
LFACEVAAGJWGFWNQIQIAKDVQFYDQALQQAUVDDADANNAKAVVKTETHETLDCCGSSTLTALTTSVLKNKLPCSGSNIISNLFKEDCHQKIDULFSC

**Human
Chimpanzee
Green Monkey
Hamster
Rat
Mouse**

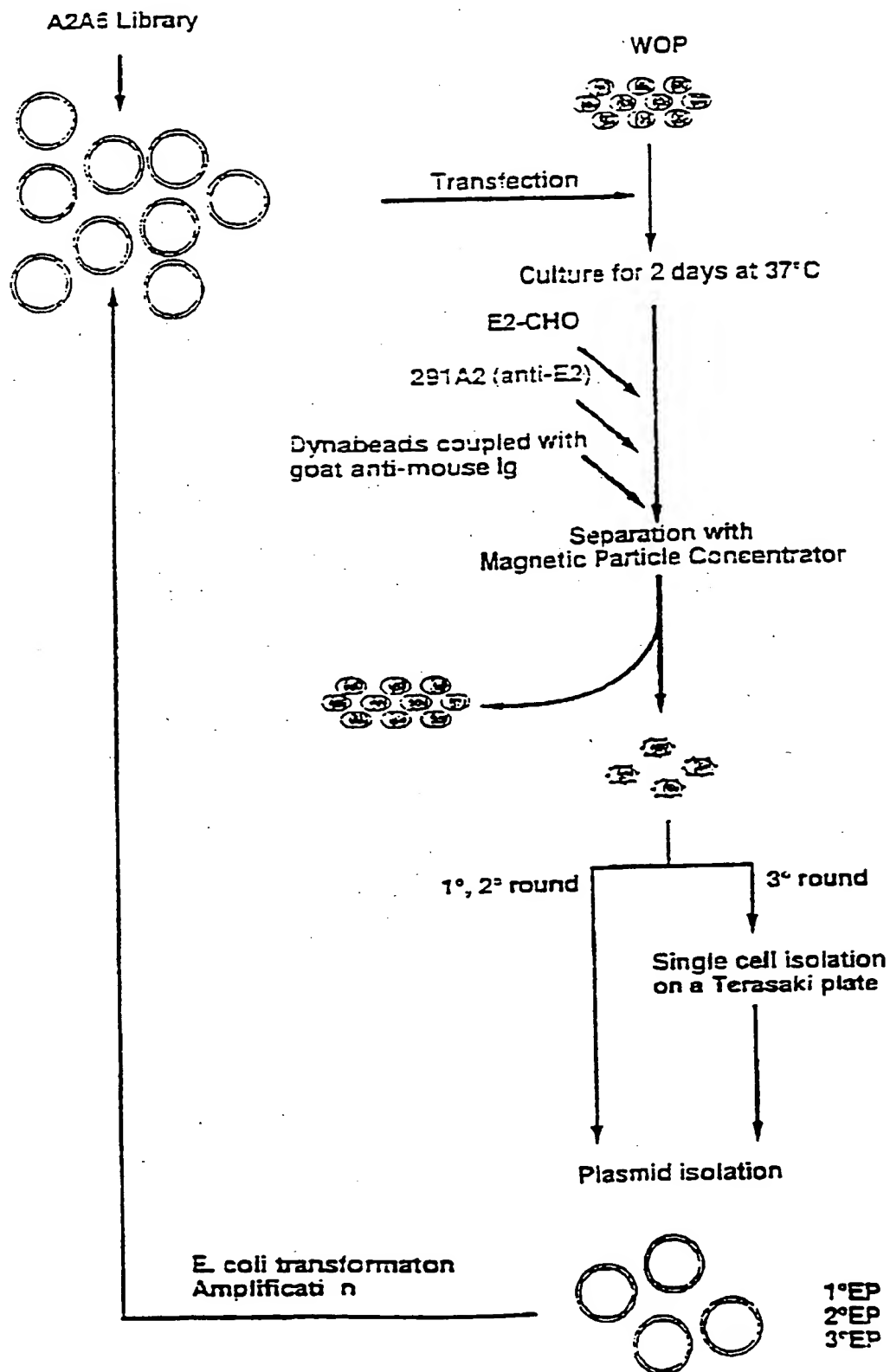
---TYA---|---CY3---|

101
101
.....CCGIRNSSVY

**Human
Chimpanzee
Green Monkey
Hamsner
Rat
Mouse**

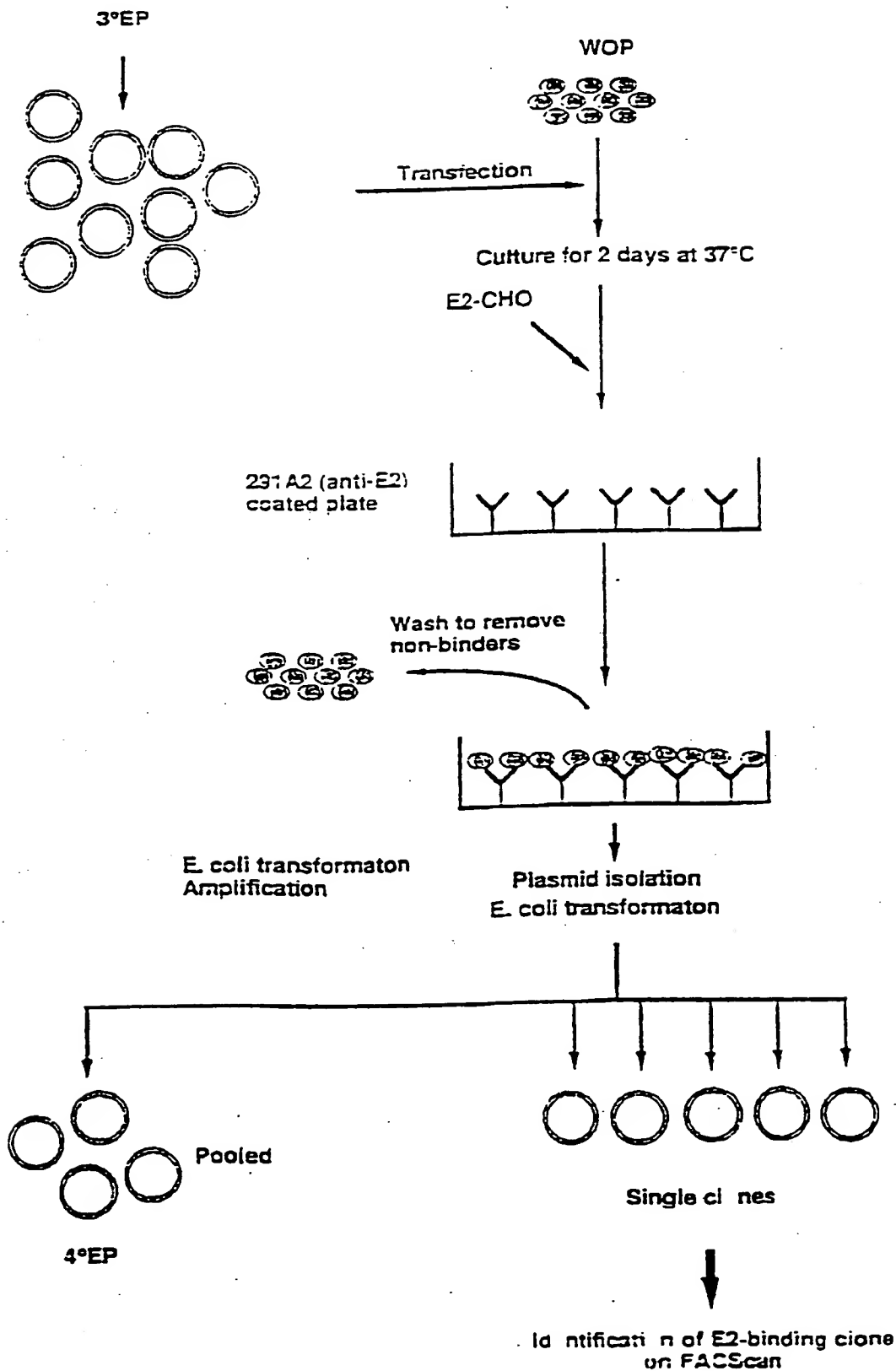
FIG. 1

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FIG. 1A1^o, 2^o, 3^o round screening

005220 21960560

FIG. 1B ^{3/17}
4th round screening



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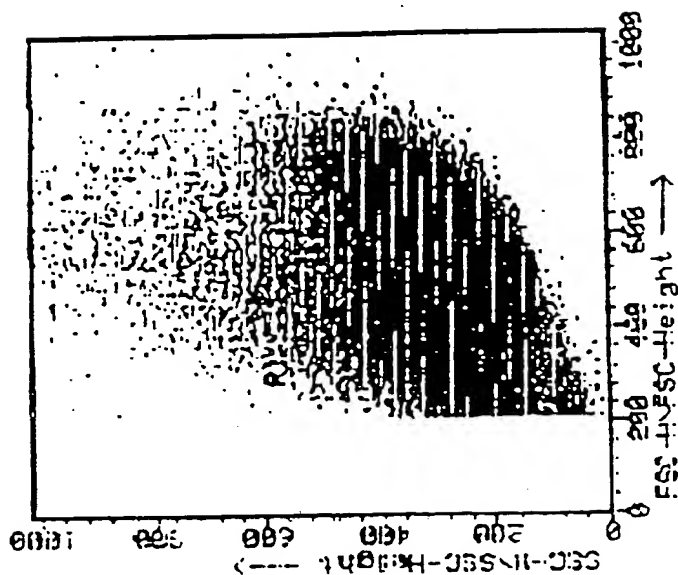


FIG. 2B

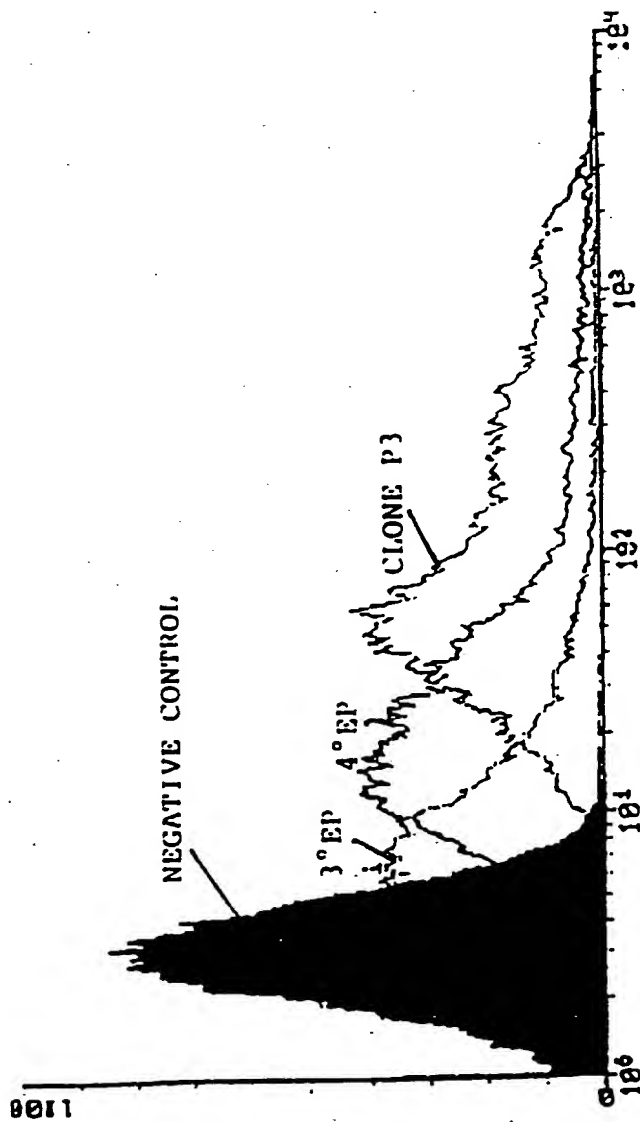


FIG. 2A

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FIG. 4

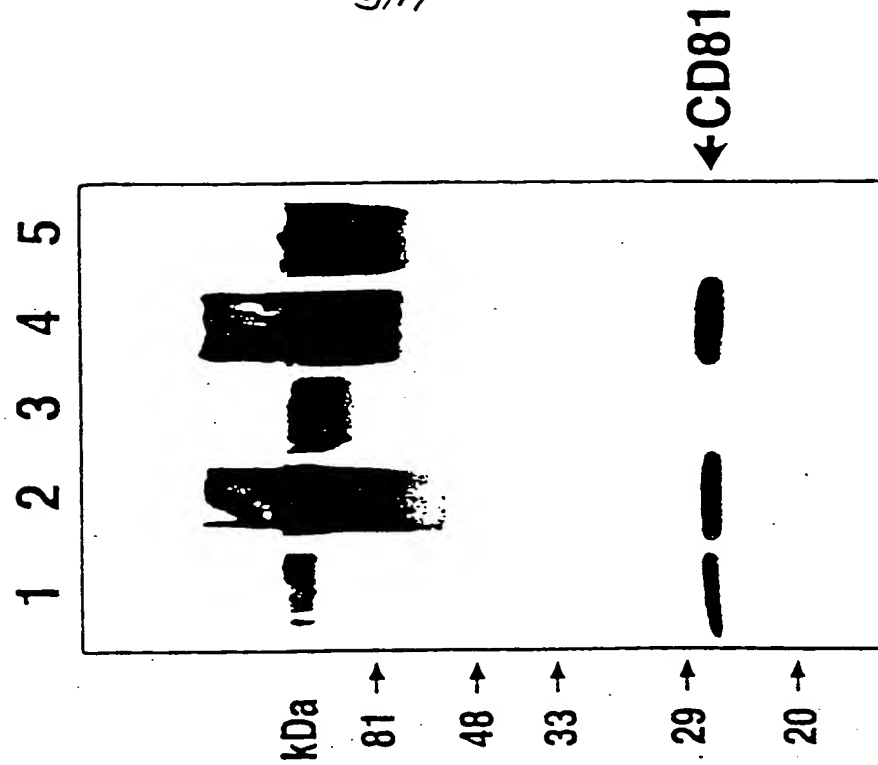
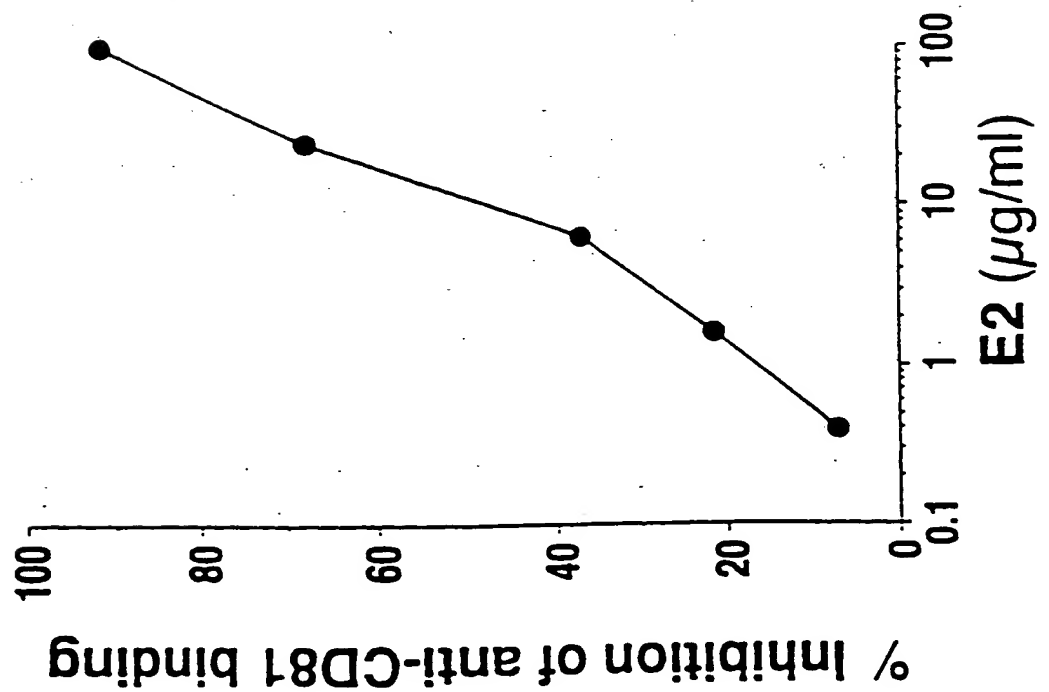


FIG. 3



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FIG. 5

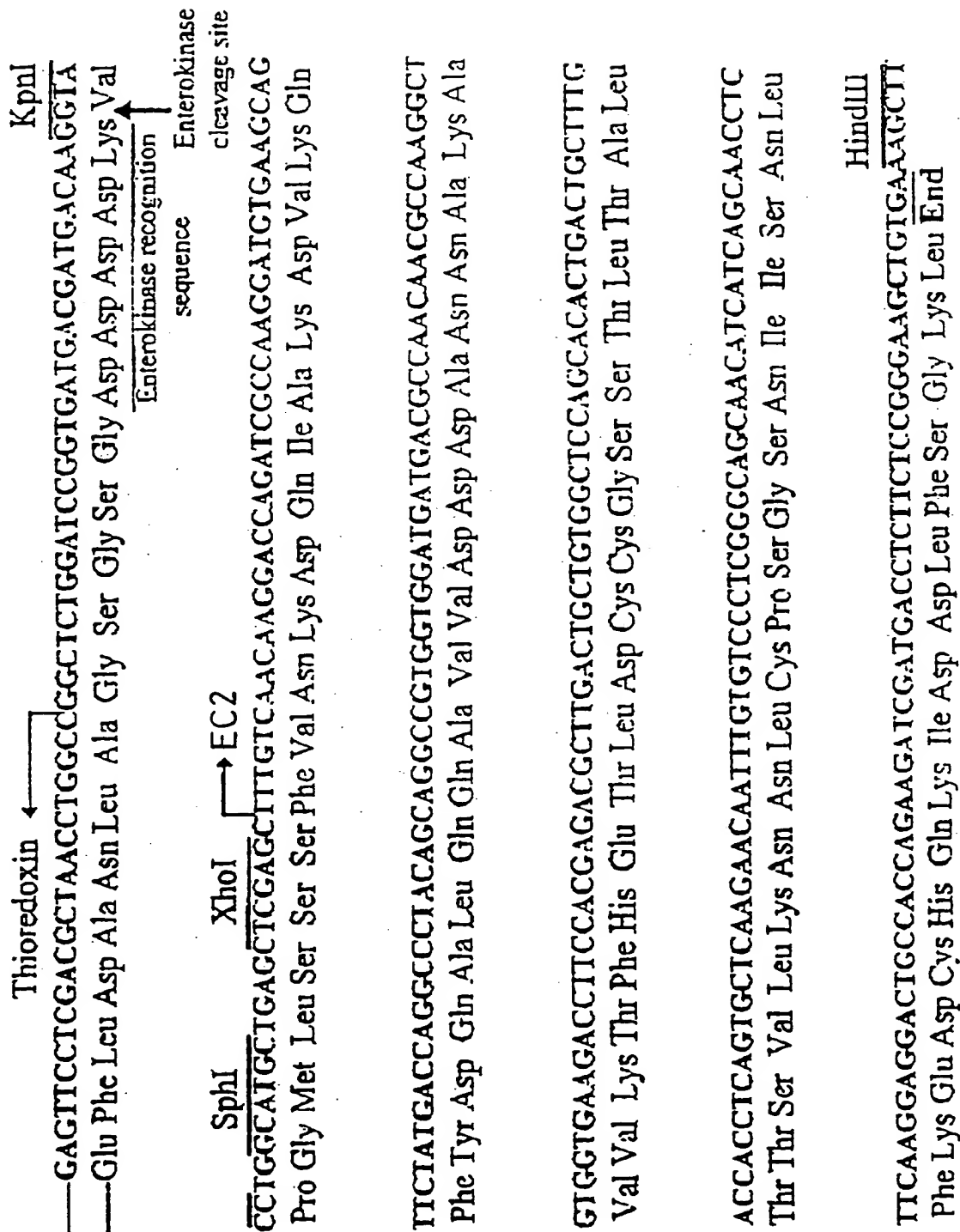
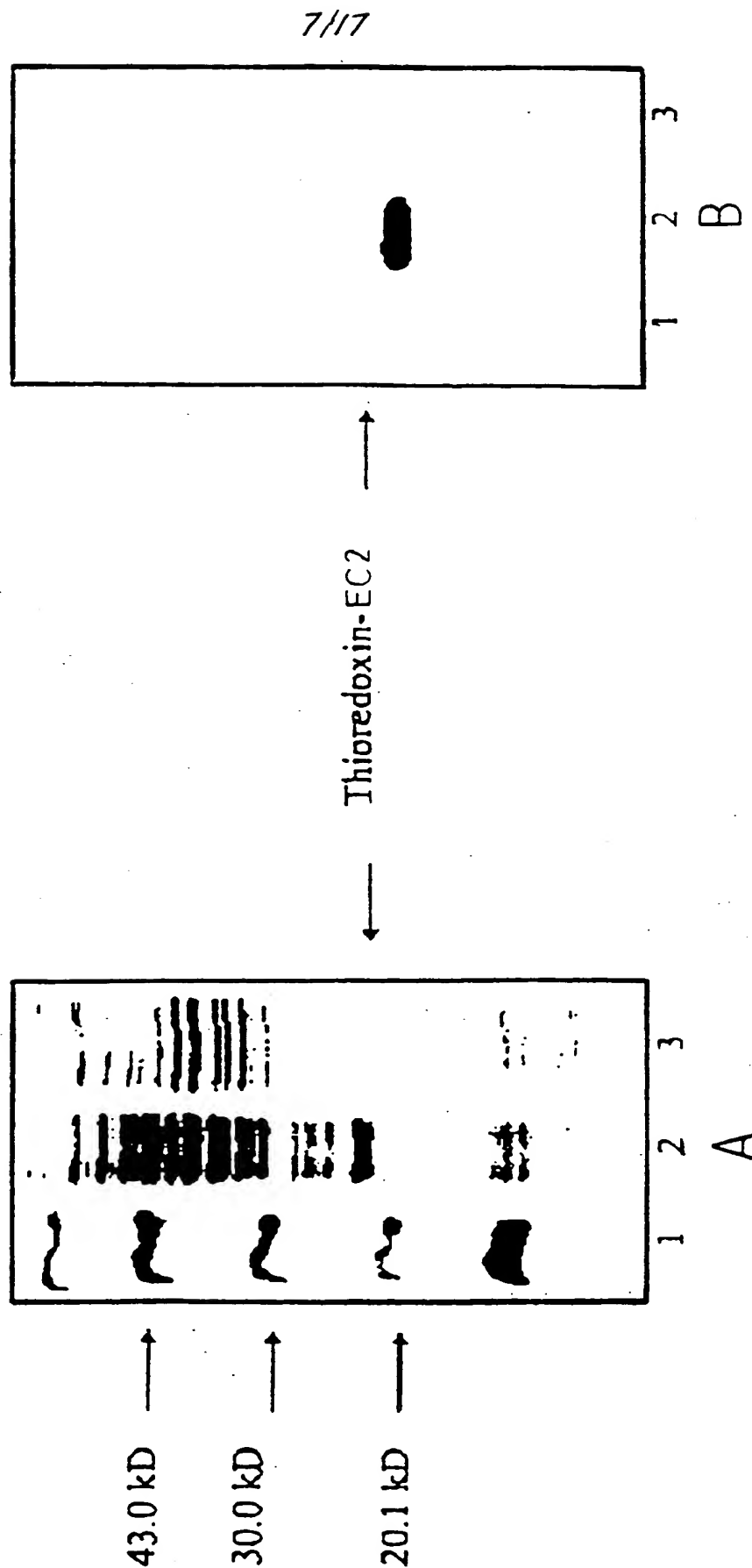
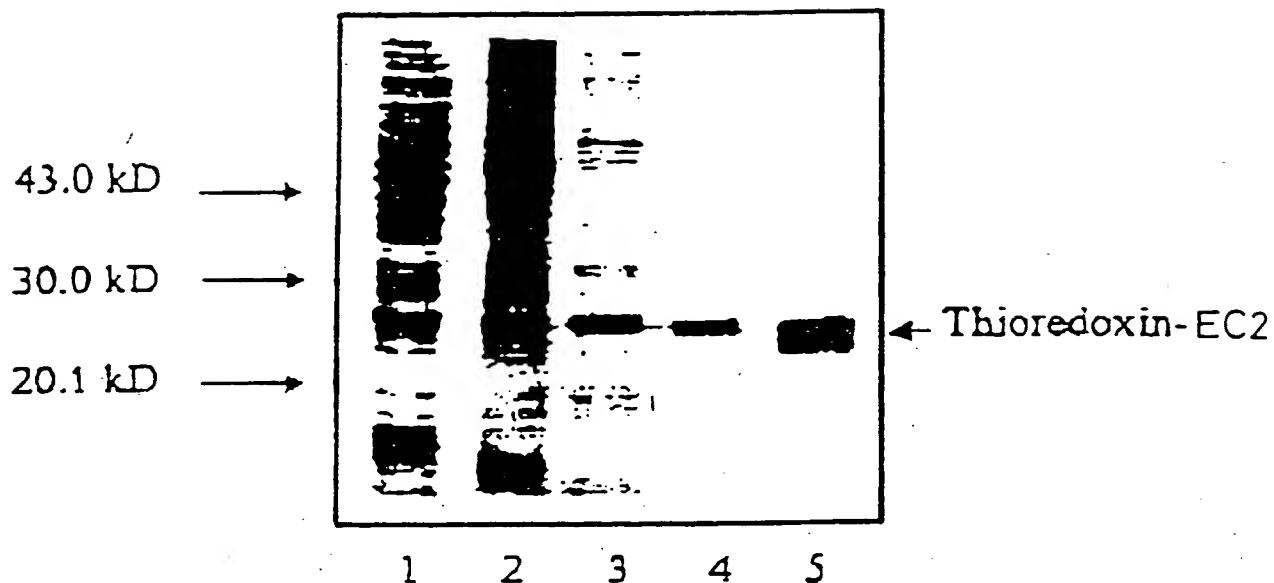
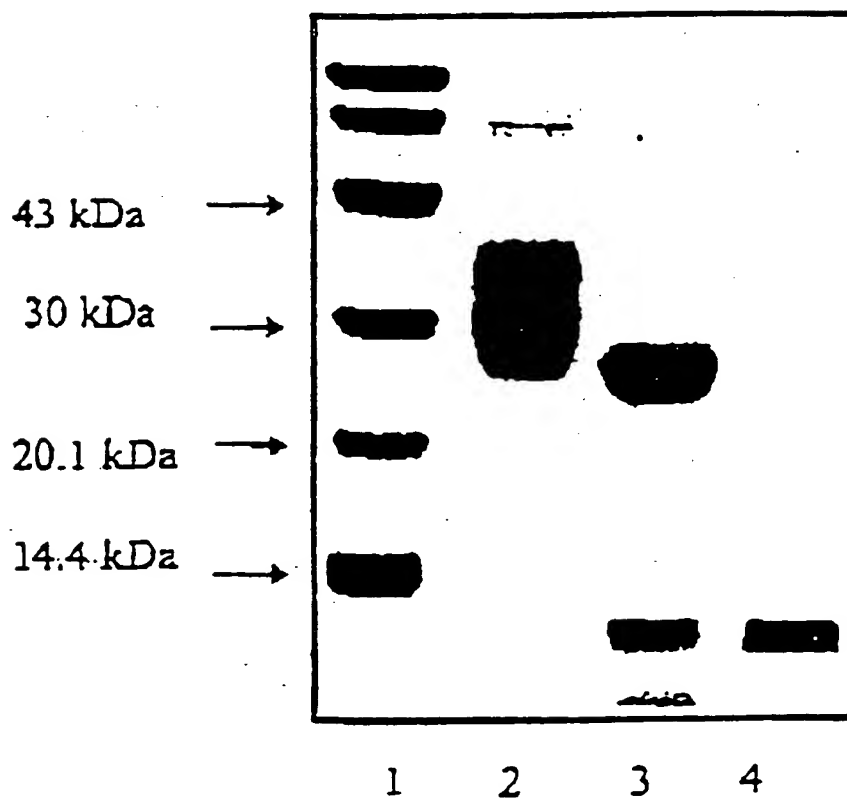


FIG. 6



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FIG. 7**FIG. 10**

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FIG. 8

Thrombin cleavage

Site

GST

Eco RI

CTGGTTCGCGTGGATCCCGGGAATTCC GGTGGTGGTGGAAATCTCA

.....Leu Val Pro Arg⁺ Gly Ser Pro Gly Ile Ser Gly Gly Gly Gly Ile Leu

Thrombin recognition sequence

EC2

TTTGTCACACGACCAGATCGCCCAAGGATGTGAAGCAG TTCTATGACCAGGCCCTACAG
Phe Val Asn Lys Asp Gln Ile Ala Lys Asp Val Lys Gln Phe Tyr Asp Gln Ala Leu Gln

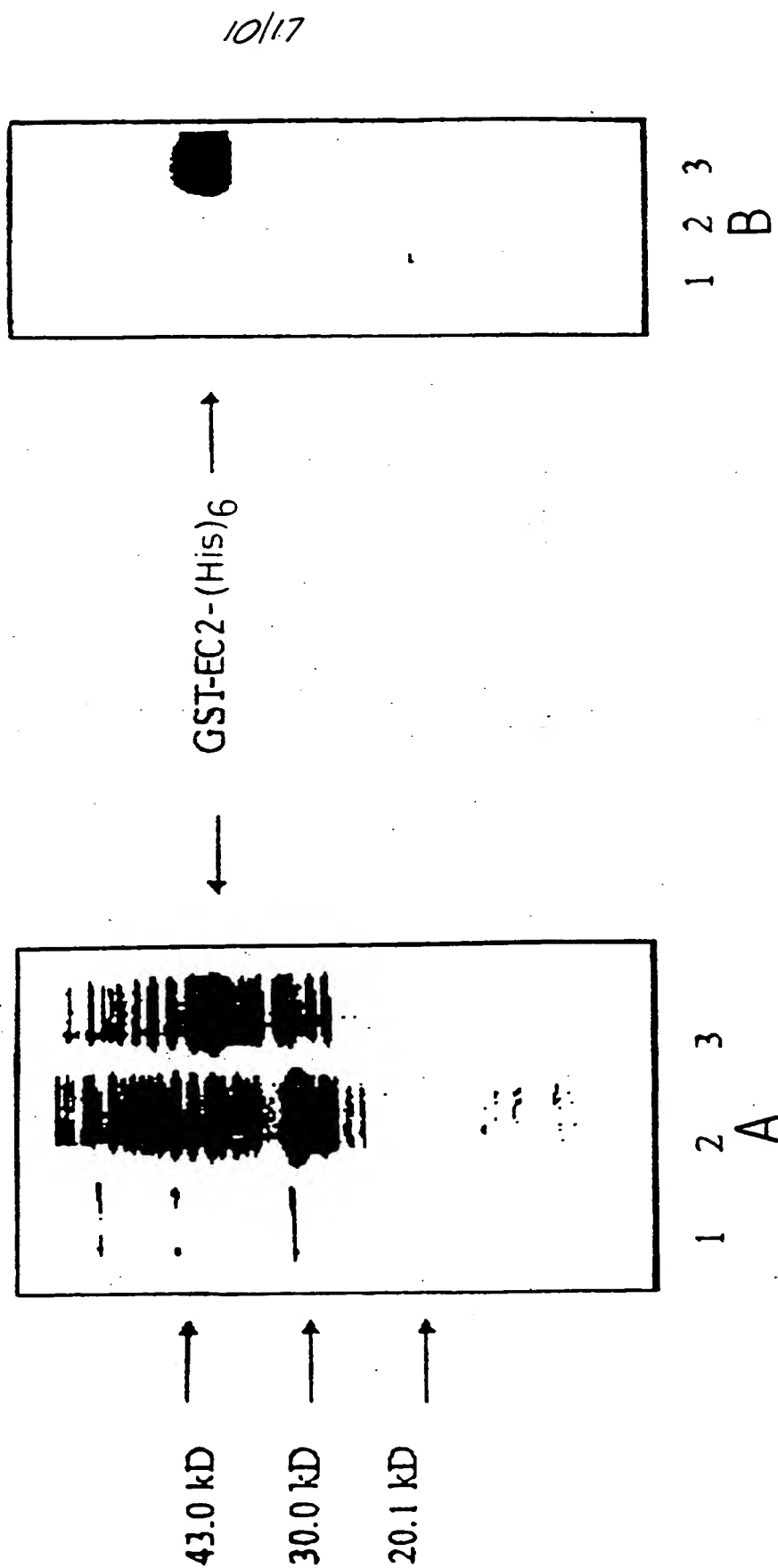
CAGGCCGTGGTGATGACGCCAACACGCCCAAGGCTGTGGTCAAGACCTTCCACGAG
Gln Ala Val Val Asp Asp Ala Asn Asn Ala Lys Ala Val Val Lys Thr Phe His Glu

ACGCITGACTGCGTCCAGCACACTGACTGCTTGACCACTCAGTGCICAAGAAC
Thr Leu Asp Cys Cys Gly Ser Thr Leu Thr Ala Leu Thr Thr Ser Val Leu Lys Asn

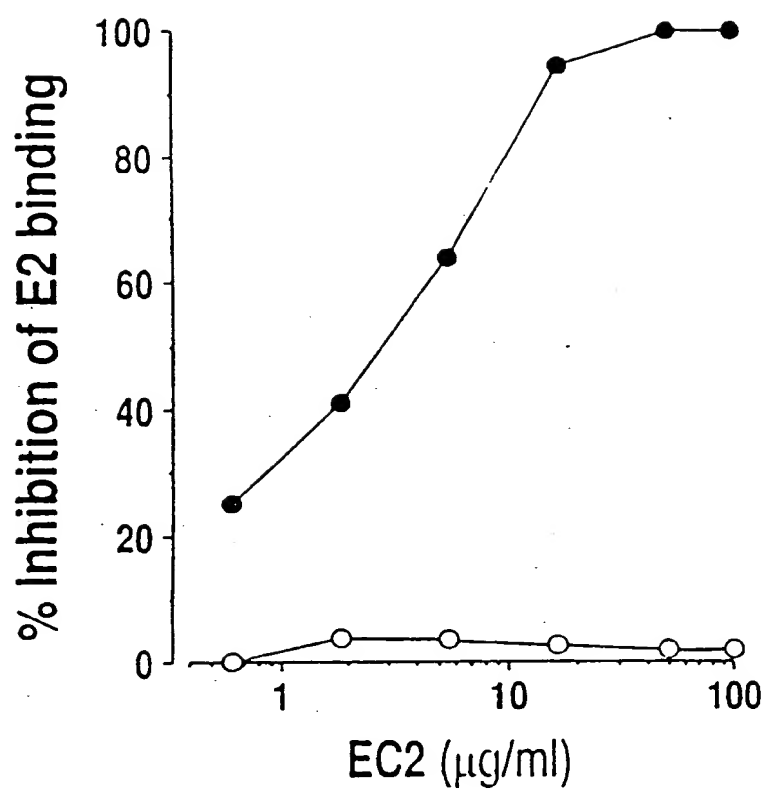
Asn Leu Cys Pro Ser Gly Ser Asn Ile Ile Ser Asn Leu Phe Lys Glu Asp Cys His Cln

EC2 ← Hexahistidine tag HindIII
AAGATCGATGACCTCTTCGGGAAGCTGCATCATCATCATCAATGAAAGCTT
Lys Ile Asp Asp Leu Phe Ser Gly Lys Leu His His His His His His End

FIG. 9



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FIG. 11

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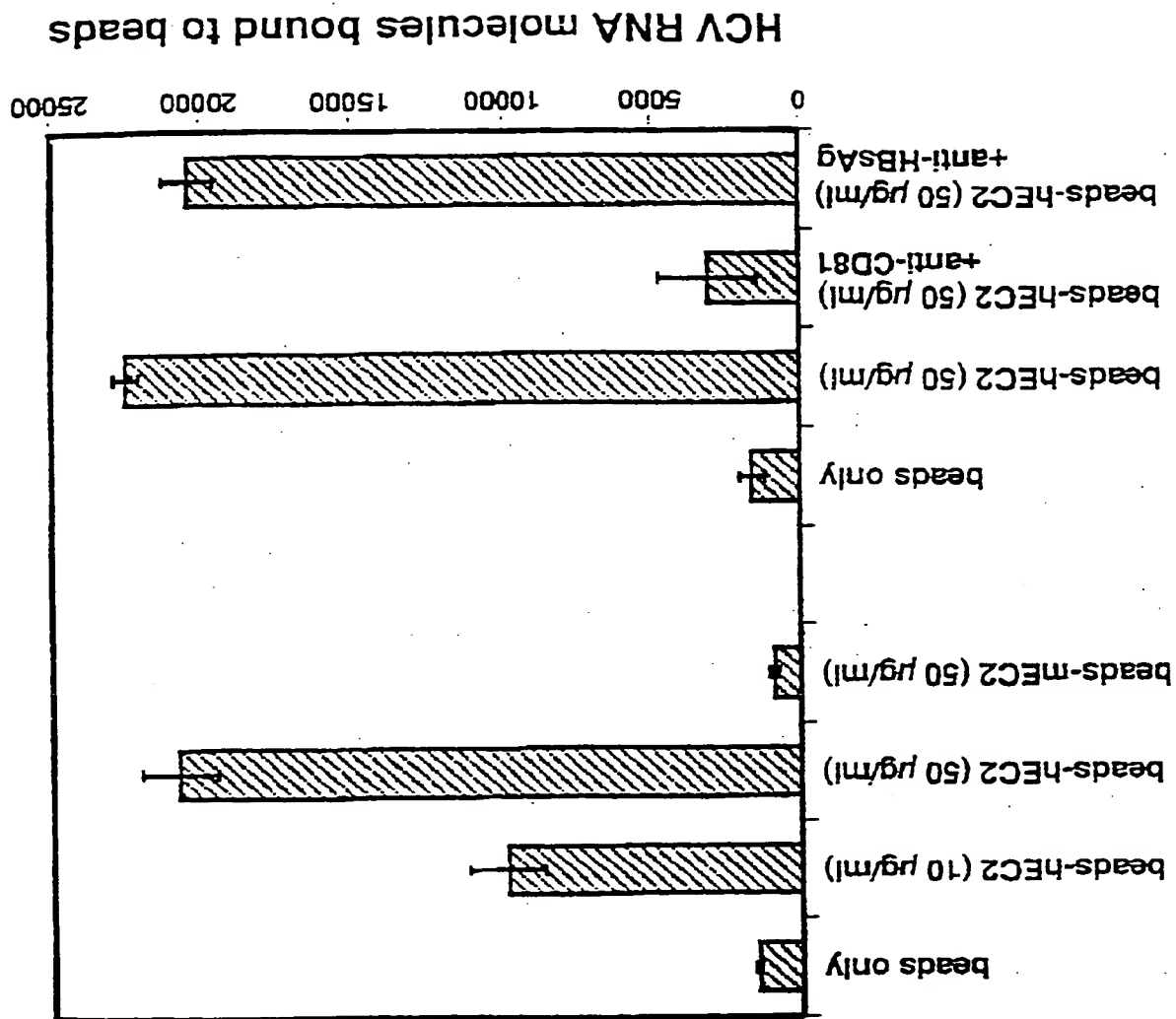


FIG. 12

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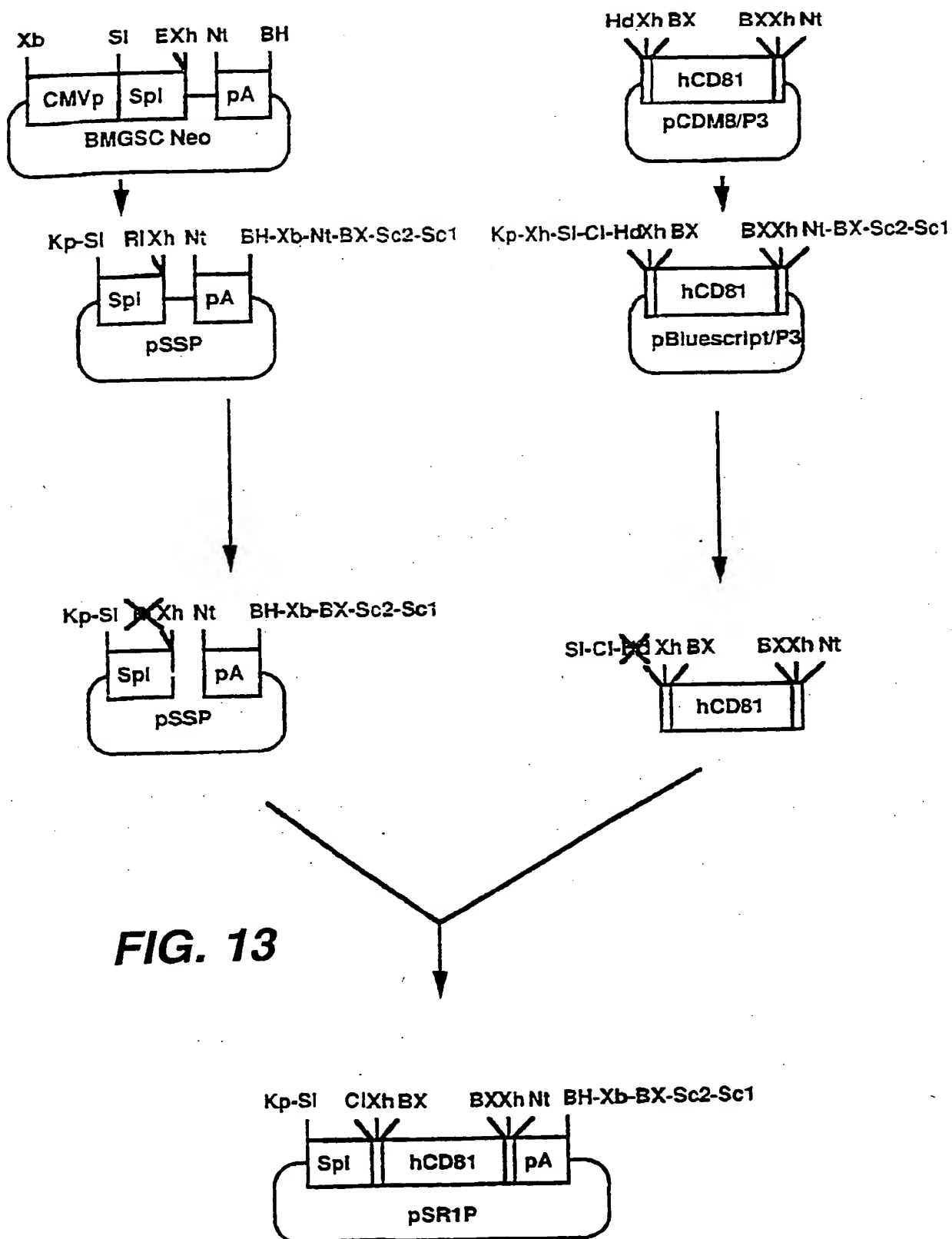


FIG. 13

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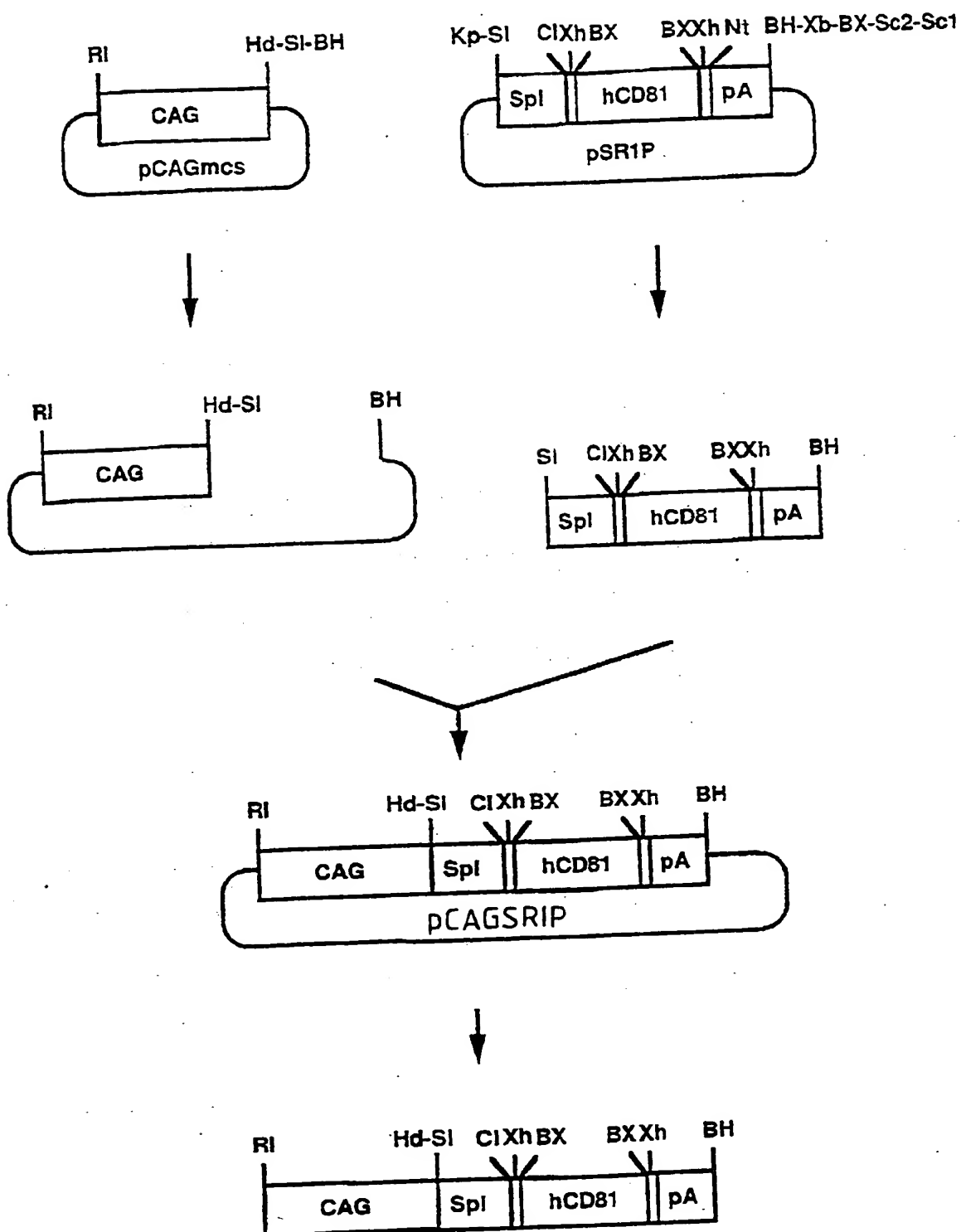
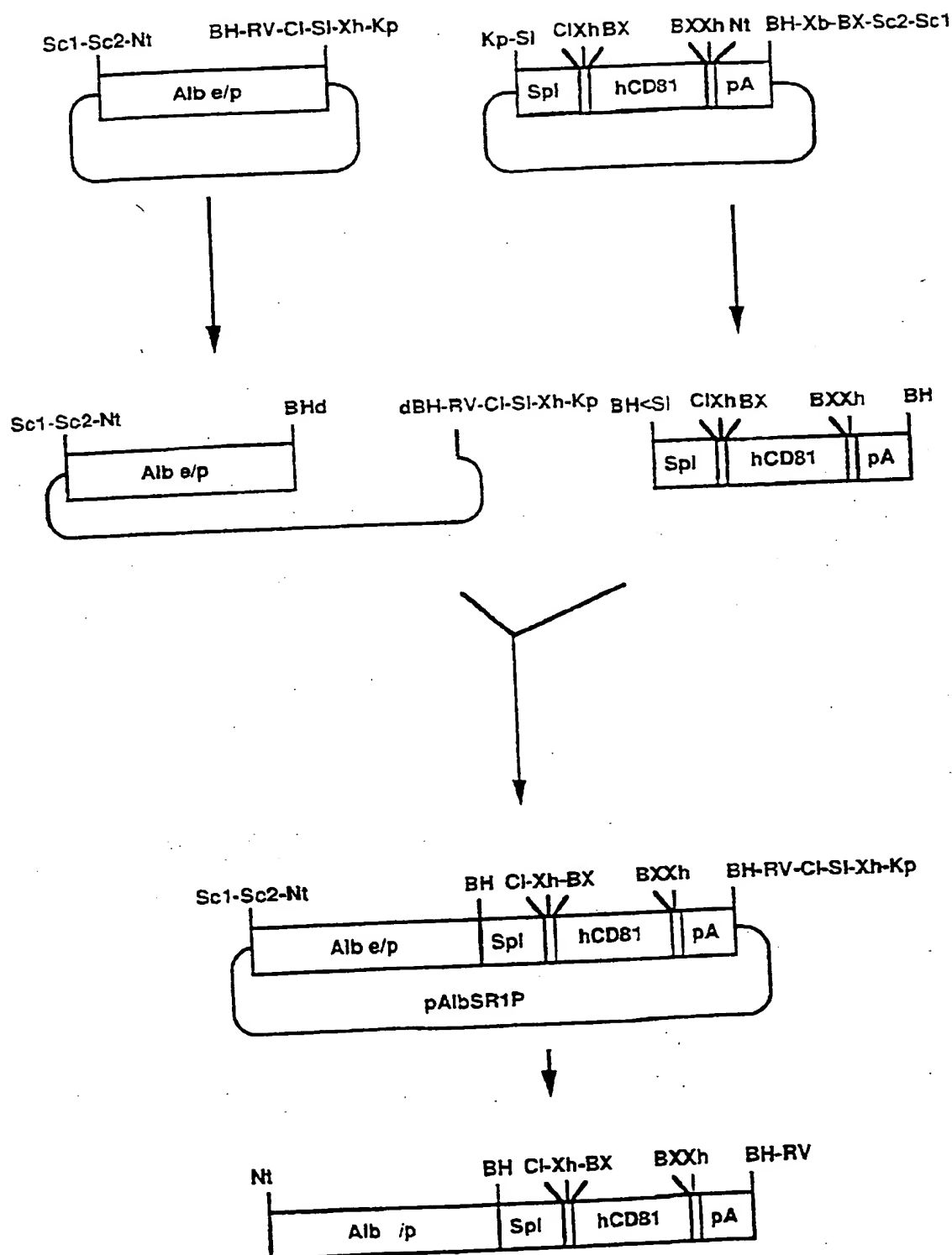


FIG. 14

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FIG. 15



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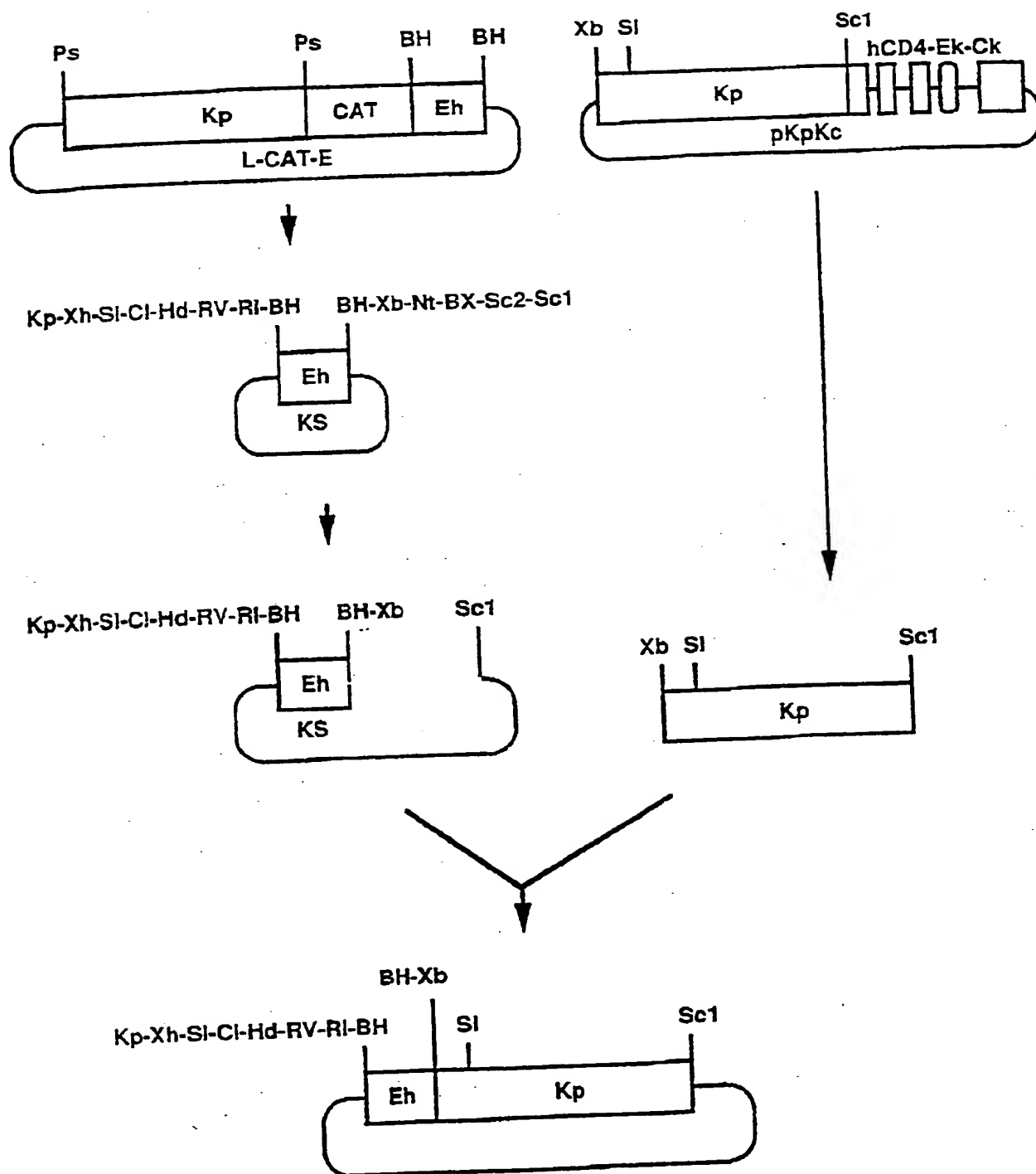


FIG. 16

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FIG. 17

